Assignment 09/08/2024

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1. class A

{

int x;

int y;

public:

A(int x,int y)

{

x=x; y=y; //Error? How to solve?

}

The issue here is that the constructor parameters x and y have the same names as the class member variables x and y. This is causing a naming conflict, and the assignment x = x is simply assigning the value of the parameter x to itself, rather than to the class member variable x.

class A

{

    int x;

    int y;

public:

    A(int x, int y)

    {

        this->x = x;

        this->y = y;

    }

};

Or we can declare Constructor like that:

class A

{

    int x;

    int y;

public:

    A(int x, int y) : x(x), y(y) {}

};

1. Difference between NVME SSD vs SATA SSD

| **Feature** | **NVMe SSD** | **SATA SSD** |
| --- | --- | --- |
| **Speed** | Up to 5000 MB/s (read), 4500 MB/s (write) | Up to 550 MB/s (read), 520 MB/s (write) |
| **Latency** | 20-50 μs (average) | 100-200 μs (average) |
| **Queue Depth** | Up to 64,000 queues | Up to 32 queues |
| **Power Consumption** | Higher (typically 3.5-5W) | Lower (typically 2-3W) |
| **Compatibility** | Requires PCIe slot on motherboard | Can be connected to SATA port |
| **Cost** | Generally more expensive | Generally less expensive |
| **Use Cases** | Gaming, video editing, data analytics, high-performance applications | General use cases, web browsing, office work, file storage |

1. please check availability of Raspberry PI hardware with your management

We don't have Raspberry PI hardware in FPT Software, but I will try to find out about it on the websites